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APPLICATION NO.	FII	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/033,012	,012 12/27/2001		Gary E. Western	29250/CE08435R	29250/CE08435R 7848	
27521	7590	04/01/2005		EXAMINER		
KEN BUR KIRTON &		IE.	BEAMER, TEMICA M			
PO BOX 45				ART UNIT	PAPER NUMBER	
SALT LAK	E CITY, U	T 84145-0120	2681			

DATE MAILED: 04/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·		Application No.	Applicant(s)				
	` ~~	10/033,012	WESTERN, GARY E.				
	Office Action Summary	Examiner	Art Unit				
		Temica M. Beamer	2681				
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE - External after - If the - If NC - Failu	ORTENED STATUTORY PERIOD FOR REPL'MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period or re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. & 133).				
Status							
2a)⊠	Responsive to communication(s) filed on 18 November 2004 . This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
5)□ 6)⊠ 7)□	4) Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-16 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers						
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Example.	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority u	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment	k(s)		·				
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:					

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 11/18/2004 have been fully considered but they are not persuasive. Applicant argues that Moisio fails to disclose scheduling communication services "collectively" for a group of mobile stations, but rather discloses allocating one or more channels from the terminal group's priority list individually to a terminal within the group.

The examiner, however, only partially agrees. In one embodiment, Moisio discloses wherein a mobile terminal establishes a data connection, one or more of the best channels on the priority list of the terminal group is allocated to the terminal (page 5, lines 26-29).

However, in a different embodiment Moisio discloses wherein a base station serves several users in a group and a base station controller can allocate radio channels in advance to terminal groups (page 14, lines 31-36). Moisio further states that a terminal group can comprise of terminals communicating simultaneously (page 15, lines 3-8). This embodiment reads on the claimed invention of "collective" scheduling.

Based on the above remarks, the claims stand rejected as set forth below.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Moisio, WO 01/45445 A1.

Regarding claim 1, Moisio discloses in a communication network operable to provide communication services to a plurality of mobile stations operating within the communication network, each mobile station being in communication with the communication network via an associated communication link, a method for scheduling the communication services comprising determining a characteristic of the associated communication link for each mobile station (page 10, lines 8-10); forming a group of mobile stations from the plurality of mobile stations based upon the characteristic of the associated communication link (page 3, line 31-page 4, line 1 and page 11, lines 15-26); and scheduling communication services collectively for the group of mobile stations (page 11, lines 15-26, page 15, lines 3-8).

Regarding claim 2, Moisio discloses the method of claim 1, wherein the characteristic of the associated communication link comprises at least one of: path loss, power control setting, bit error rate and delay (page 9, lines 7-15).

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Regarding claim 3, Moisio discloses the method of claim 1, wherein forming a group of mobile stations comprises forming a plurality of groups of mobile stations, and wherein scheduling communication services collectively for the group of mobile stations comprises scheduling communication services collectively for each group of the plurality of mobile stations (page 11, line 15-page 12, line 7).

Regarding claim 4, Moisio discloses the method of claim 1, wherein the group of mobile stations comprises mobile stations having communication links with similar characteristics (page 10, line 25-page 11, line 10).

Regarding claim 5, Moisio discloses the method of claim 1, wherein scheduling communication services collectively for the group of mobile stations comprises scheduling communication services on a recurring basis (page 11, line 15-page 12, line 7).

Regarding claim 6, Moisio discloses the method of claim 1, wherein scheduling communication services collectively for the group of mobile stations comprises scheduling communication services on a sinusoidal basis (i.e., periodically updated) (page 12, lines 1-4).

Regarding claim 7, Moisio discloses the method of claim 1, wherein determining a characteristic of the associated communication link for each mobile station comprises determining a power control state (page 15, lines 5-8 and page 17, lines 25-32).

Regarding claim 8, Moisio discloses the method of claim 1, wherein scheduling communication services collectively for the group of mobile stations comprises transmitting schedule information to the group of mobile stations (page 16, lines 20-22).

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Regarding claim 9, Moisio discloses the method of claim 1, wherein scheduling communication services collectively for the group of mobile stations comprises scheduling communication services for the group of mobile stations to minimize the transmit power needed to reach each mobile station of the group of mobile stations (to reduce interference) (page 13, lines 15-17 and page 15, lines 1-10).

Regarding claim 10, Moisio discloses the method of claim 1, wherein the group of mobile stationscomprises a first mobile station scheduled to receive a downlink transmission and a second mobile station to request an uplink timeslot (page 14, line 32-page 15, line 15).

Regarding claim 11, Moisio discloses an apparatus for scheduling communication services within a communication network, the communication network providing communication services to a plurality of mobile stations operating within the communication network, the apparatus comprising: a base station system operable to establish communication links between the communication network and each of the plurality of mobile stations, the base station system being further operable to determine a characteristic of each of the communication links (page 3, line 31-page 4, line 12); a scheduling algorithm operating in accordance with the base station system to form a group of mobile stations from the plurality of mobile stations based upon the characteristic of each of the communication links, and to schedule communication services collectively for the group of mobile stations (page 15, lines 3-8, page 6, lines 9-14).

Regarding claim 12, Moisio discloses the apparatus of claim 11, wherein the characteristic of each of the communication links comprises at least one of: path loss, power control setting, bit error rate and delay (page 9, lines 7-15).

Regarding claim 13, Moisio discloses the apparatus of claim 11, wherein the base station system operates in accordance with the scheduling algorithm to form a plurality of groups of mobile stations and to schedule communication services for the plurality of groups (page 11, line 15-page 12, line 7).

Regarding claim 14, Moisio discloses the apparatus of claim 11, wherein the group of mobile stations comprises mobile stations having communication links with similar characteristics (page 10, line 25-page 11, line 10).

Regarding claim 15, Moisio discloses the apparatus of claim 11, wherein the scheduling algorithm comprises a recurring scheduling algorithm (page 11, line 15-page 12, line 7).

Regarding claim 16, Moisio discloses the apparatus of claim 11, wherein the scheduling algorithm comprises a sinusoidal scheduling algorithm (page 12, lines 1-4).

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Temica M. Beamer whose telephone number is (703) 306-5837. The examiner can normally be reached on Monday-Thursday (alternate Fridays) 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (703) 306-0003. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Temica M. Beamer Primary Examiner Art Unit 2681

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